

Name _____

Too Much Power

Session: Activity Sheet Four

So how does a light bulb light up? What will happen as you add more power to a small light bulb? Let's find out!

From your workstation materials connect a wire to each side of the red light bulb holder. Place the purple bottom bulb into the holder and place between the two wires one D battery. With one being the dullest and ten being the brightest light, record how bright you think the light bulb is. Repeat his same experiment but this time use the red bottom bulb. Record its brightness.

0= No light.....5= medium light..... 10=brightest light

Bulb Type	Using 1 Battery	Using 2 Batteries	Using 3 Batteries	Using 4 Batteries
Purple				
Red				

Continue to repeat the above experiment with each bulb only increasing the number batteries to two, then three, and finally four. Be sure that the batteries are connected positive to negative for the bulbs to light up.

What did you notice? :

1. Which bulb was brighter the purple or red bulb with 2 batteries?
2. What causes the bulb to light up?
3. What happen when you tried three batteries with each bulb? Explain why this happen.
4. What happen when you tried four batteries with each bulb? Explain.